



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the applications/patents identified in Table A attached hereto, and appoint

Practitioners at Customer Number:


34138

as my/our attorney(s) or agent(s) to prosecute the applications/patents identified in Table A, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for the applications/patents identified in Table A to:

Practitioners at Customer Number: 34138

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date: 3/27/03

By: _____

Name: B. Lynne Parshall
Title: Executive Vice President

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

STATEMENT UNDER 37 CFR 3.73(b)

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APR 22 2003

TECH CENTER 1600/2900

Applicant, **ISIS Pharmaceuticals, Inc.**, a corporation, states that it is:

the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is **100%** in the patent applications identified in Table A.

a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date: 3/27/03

By: _____

Name: B. Lynne Parshall
Title: Executive Vice President



Table A

| Serial No. Patent No. Docket No. | Filing Date Issue Date | Inventor(s) | Examiner | Art Unit | Title |
|--|---------------------------|-------------------|--------------|----------|--|
| 08/659,440 5,898,031 (ISISS0002-100) | 06/06/1996 04/27/1999 | S. Crooke | J. LeGuyader | 1809 | OLIGORIBONUCLEOTIDES FOR CLEAVING RNA |
| 08/870,608 6,107,094 (ISISS0002-101) | 06/06/1997 08/22/2000 | S. Crooke | S. McGarry | 1635 | OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA |
| 09/479,783 (ISISS0002-102) | 01/07/2000 | S. Crooke | S. McGarry | 1635 | OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA |
| 10/078,949 (ISISS0002-103) | 02/20/2002 | S. Crooke | Unknown | 1635 | OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA |
| 09/900,425 (ISISS0003-100) | 07/06/2000 | H. Wu et al. | S. McGarry | 1635 | HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF |
| 10/079,185 (ISISS0003-101) | 02/20/2002 | S. Crooke | Unknown | 1635 | HUMAN RNASE III AND COMPOSITIONS AND USES THEREOF |
| 10/199,674 (ISISS0035-100) | 07/19/2002 | L. Cowser et al. | Unknown | 1646 | ANTISENSE MODULATION OF PROTEIN KINASE C-10TA EXPRESSION |
| 10/177,554 (ISISS0036-100) | 06/20/2002 | K. Dobie et al. | Unknown | 1645 | ANTISENSE MODULATION OF PRL-3 EXPRESSION |
| 10/188,646 (ISISS0037-100) | 07/02/2002 | F. Bennett et al. | Unknown | 1642 | ANTISENSE MODULATION OF LIVIN EXPRESSION |

PATENT
Sol Inventor

DOCKET NO.: ISIS-2484

(Pending Application,
Serial No. Unknown)

A S S I G N M E N T

WHEREAS, I Stanley T. Crooke, hereinafter referred to as the assignor, residing at 3211 Piragua Street, Carlsbad, CA 92009, am the inventor of certain inventions or improvements for which I have made application for Letters Patent of the United States, identified as Case No. ISIS-2484, entitled OLIGORIBONUCLEOTIDES AND RIBONUCLEASES FOR CLEAVING RNA; and

WHEREAS, ISIS Pharmaceuticals, Inc., hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA 92008, a corporation of Delaware is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any re-issue or re-issues or extension or extensions of said Letters Patent, and assign to and authorize said assignee to file in my name applications for Letters Patent in all countries the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me had this assignment, sale and transfer not been made.

AND I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith, and I further covenant and agree that I will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees or legal representatives, and I agree to communicate to said assignee, or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to certify

in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patents of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I further authorize and direct my attorneys to insert below* the serial number and filing date of said application now identified as Case No. ISIS-2484 as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, I have hereunto set my hand and seal.

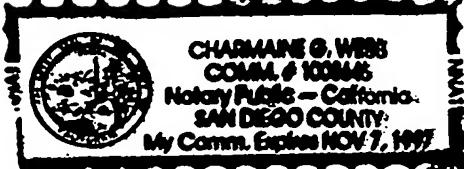

(L.S.)

State of California :

ss

COUNTY OF San Diego :

On this 23rd day of June, 1997, before me personally came the above named Stanley T. Crooke, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of that person's own free will for the use and purposes therein set forth.



Charmaine G. Webb

Notary Public

*The above assignment covers application Serial No.
08/870,608, filed on June 6, 1997.

The above insertion made by me this 5th day of
December, 1997.

Paul K. Legard
of WOODCOCK WASHBURN KURTZ MACKIEWICZ &
NORRIS